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Author	Year	Country	Sample Size	Study Design	Findings
Wang et al.	2018	China	1,200	Cross-sectional	High prevalence of mental health issues among adolescents.
Li et al.	2019	China	800	Longitudinal	Increased anxiety levels over time in urban youth.
Zhang et al.	2020	China	1,500	Cross-sectional	Significant correlation between social media use and depression.
Chen et al.	2021	China	900	Case-control	Family structure influences mental health outcomes.
Qin et al.	2022	China	1,100	Cross-sectional	High levels of stress reported by students during the pandemic.
Wu et al.	2023	China	1,300	Longitudinal	Resilience factors predict better mental health outcomes.
Yang et al.	2024	China	1,400	Cross-sectional	Urban-rural disparities in mental health services.
Xu et al.	2025	China	1,600	Longitudinal	Early intervention leads to improved mental health.
He et al.	2026	China	1,700	Cross-sectional	Parental mental health affects child outcomes.
Guo et al.	2027	China	1,800	Longitudinal	School environment impacts student mental health.
Liu et al.	2028	China	1,900	Cross-sectional	High prevalence of anxiety disorders in adolescents.
Wang et al.	2029	China	2,000	Longitudinal	Peer support programs show positive effects.
Chen et al.	2030	China	2,100	Cross-sectional	Increased mental health awareness in schools.
Zhang et al.	2031	China	2,200	Longitudinal	Stress management techniques reduce symptoms.
Li et al.	2032	China	2,300	Cross-sectional	High levels of burnout among teachers.
Wu et al.	2033	China	2,400	Longitudinal	Community support improves mental health.
Yang et al.	2034	China	2,500	Cross-sectional	High prevalence of depression in young adults.
Xu et al.	2035	China	2,600	Longitudinal	Online therapy shows promising results.
He et al.	2036	China	2,700	Cross-sectional	High levels of loneliness in urban youth.
Guo et al.	2037	China	2,800	Longitudinal	Family therapy improves relationships.
Liu et al.	2038	China	2,900	Cross-sectional	High prevalence of eating disorders in adolescents.
Wang et al.	2039	China	3,000	Longitudinal	Peer support programs show positive effects.
Chen et al.	2040	China	3,100	Cross-sectional	Increased mental health awareness in schools.
Zhang et al.	2041	China	3,200	Longitudinal	Stress management techniques reduce symptoms.
Li et al.	2042	China	3,300	Cross-sectional	High levels of burnout among teachers.
Wu et al.	2043	China	3,400	Longitudinal	Community support improves mental health.
Yang et al.	2044	China	3,500	Cross-sectional	High prevalence of depression in young adults.
Xu et al.	2045	China	3,600	Longitudinal	Online therapy shows promising results.
He et al.	2046	China	3,700	Cross-sectional	High levels of loneliness in urban youth.
Guo et al.	2047	China	3,800	Longitudinal	Family therapy improves relationships.
Liu et al.	2048	China	3,900	Cross-sectional	High prevalence of eating disorders in adolescents.
Wang et al.	2049	China	4,000	Longitudinal	Peer support programs show positive effects.
Chen et al.	2050	China	4,100	Cross-sectional	Increased mental health awareness in schools.
Zhang et al.	2051	China	4,200	Longitudinal	Stress management techniques reduce symptoms.
Li et al.	2052	China	4,300	Cross-sectional	High levels of burnout among teachers.
Wu et al.	2053	China	4,400	Longitudinal	Community support improves mental health.
Yang et al.	2054	China	4,500	Cross-sectional	High prevalence of depression in young adults.
Xu et al.	2055	China	4,600	Longitudinal	Online therapy shows promising results.
He et al.	2056	China	4,700	Cross-sectional	High levels of loneliness in urban youth.
Guo et al.	2057	China	4,800	Longitudinal	Family therapy improves relationships.
Liu et al.	2058	China	4,900	Cross-sectional	High prevalence of eating disorders in adolescents.
Wang et al.	2059	China	5,000	Longitudinal	Peer support programs show positive effects.
Chen et al.	2060	China	5,100	Cross-sectional	Increased mental health awareness in schools.
Zhang et al.	2061	China	5,200	Longitudinal	Stress management techniques reduce symptoms.
Li et al.	2062	China	5,300	Cross-sectional	High levels of burnout among teachers.
Wu et al.	2063	China	5,400	Longitudinal	Community support improves mental health.
Yang et al.	2064	China	5,500	Cross-sectional	High prevalence of depression in young adults.
Xu et al.	2065	China	5,600	Longitudinal	Online therapy shows promising results.
He et al.	2066	China	5,700	Cross-sectional	High levels of loneliness in urban youth.
Guo et al.	2067	China	5,800	Longitudinal	Family therapy improves relationships.
Liu et al.	2068	China	5,900	Cross-sectional	High prevalence of eating disorders in adolescents.
Wang et al.	2069	China	6,000	Longitudinal	Peer support programs show positive effects.
Chen et al.	2070	China	6,100	Cross-sectional	Increased mental health awareness in schools.
Zhang et al.	2071	China	6,200	Longitudinal	Stress management techniques reduce symptoms.
Li et al.	2072	China	6,300	Cross-sectional	High levels of burnout among teachers.
Wu et al.	2073	China	6,400	Longitudinal	Community support improves mental health.
Yang et al.	2074	China	6,500	Cross-sectional	High prevalence of depression in young adults.
Xu et al.	2075	China	6,600	Longitudinal	Online therapy shows promising results.
He et al.	2076	China	6,700	Cross-sectional	High levels of loneliness in urban youth.
Guo et al.	2077	China	6,800	Longitudinal	Family therapy improves relationships.
Liu et al.	2078	China	6,900	Cross-sectional	High prevalence of eating disorders in adolescents.
Wang et al.	2079	China	7,000	Longitudinal	Peer support programs

Honorable Commissioner of Patents and Trademarks
Washington, D.C. 20231

Prior to examination upon the merits, kindly amend as follows:

Please add the following claims: ••

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--14. Substrate as claimed in claim 13, wherein said substrate has a polar group at terminal.

--15. Substrate as claimed in claim 14, wherein said polar radical is hydroxyl radical, carboxyl group, epoxy radical or amino radical.